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INFORMATION DISCLOSURE STATEMENT BY APPLICANT ( Not for submission under 37 CFR 1.99)

Application Number		10577374			
Filing Date		2007-01-23			
First Named Inventor	David	M. Sutton et al.			
Art Unit		1621			
Examiner Name	Valen	rod, Yevgeny			
Attorney Docket Number		KPT 1101; P501275US			

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	1	1400849		1921-12-20	BACKHAUS			
	2	2551625		1951-05-08	MORRELL, et al.			
	3	2575243		1951-11-13	CARLSON, et al.			
	4	2587753		1952-03-04	O'CONNOR, et al.			
	5	4435595		1984-03-06	AGREDA, et al.			
	6	5008046		1991-04-16	BREMUS et al.			
	7	5536856		1996-07-16	HARRISON, et al.			
	8	5719311		1998-02-17	WU, et al.			

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			Art Ur	it			1621					
			Exam	Examiner Name Valent			nrod, Yevgeny					
			Attorn	Attorney Docket Number			KPT 1101; P5012	275US				
	9	6045703		2000-04	-04	MILLER						
			-									
	10	6586609	B2	2003-07	'-01	RUGGIER	l, et a	l.				
	11	6815525	B2	2004-11	00	DEBRUIN						
	''	0013323	52	2004-11	-03	DEBROIN						
	12	7045100	B2	2006-05	i-16	ERGUN, e	t al.					
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	1	9851657	wo	_	A1	1998-11-1	9 1	Reilly Industries, In	с.			
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First Named Inventor	David	M. Sutton et al.					
Art Unit		1621					
Examiner Name	Valen	rod, Yevgeny					
Attorney Docket Numb	er	KPT 1101; P5012	75US				

	1	ASTHANA, N., et al., "A Continuous Reactive Separation Process for Ethyl Lactate Formation," 2005, Organic Process Research & Development, 9(5):599-607 (Abstract)	
	2	BOCK, et al., *Design and Control of a Reaction Distillation Column Including the Recovery System,* 1997, Chem. Eng. and Proc.,36(2):101-109 (Abstract)	
	3	DENG, et al., "Synthesis of Tributly Citrate Catalyzed by Sodium Hydrogen Sulfate," 2005, J Shangqiu Teachers College, 21(2):113-115 (Abstract)	
	4	GANGADWALA, J., et al., "Esterification of Acetic Acid with Butanol in the Presence of Ion-Exchange Resins as Catalysts," 2003, Ind. Eng. Chem. Res., 42(10):2146-2155 (Abstract)	
	5	GOTZE, L., et al., "Reactive Distillation with KATAPAK," 2001, Catalysis Today, 69(1-4):201-208 (Abstract)	
	6	HANIKA, J., et al., "Butylacetate Via Reactive Distillation - Modelling and Experiment," 1999, Chemical Engineering Science, 54(21):5205-5209 (Abstract)	
	7	HIWALE, R.S., et al., "Industrial Applications of Reactive Distillation: Recent Trends," 2004, Int. J. Chem. React. Eng., 2(R1):54 pages	
<u> </u>	8	KOLODZIEJ, et al., "Mass Transfer of Hydraulics for KATAPAK-S," 2004, Chem. Eng. Proc., 43(3):457-464 (Abstract)	
	9	LIU, et al., "Catalytic Synthesis of Tri-butyl Citrate with Dealumiinated USY," 2003, Chinese Journal of Synthetic Chemistry, 11(2):175-177 (Abstract)	
	10	MAHAJANI, S.M., et al., "Reactive Distillation: Process of Commercial Importance," 2000, Encyclopedia of Separation Science, Wilson, Edlard, Poole C.A. and m. Cooke, Eds. 3:4075-4082	
	11	MORITZ, P., et al., "Fluid Dynamics in Reactive Distillation Packing Katapak -S," 1999, Chemicial Engineering Science, 54:1367-1374	

Receipt date: 08/25/2008 10577374 - GAU: 1621 Application Number 10577374 INFORMATION DISCLOSURE STATEMENT BY APPLICANT

( Not for submission under 37 CFR 1.99)

7 (pplication realine)		10011014				
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First Named Inventor	David	M. Sutton et al.				
Art Unit		1621				
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Attorney Docket Number		KPT 1101; P501275US				

12	NONG, L., et al., "Synthesis of Tributyl Citrate with Aluminum Phosphotungstate Supported on Activated Carbon," 2004, Jingxi Huagong Zhongjianti, 32(3):50-52, 54 (Abstract)	
13	OMOTA, F., et al., "Fatty Acid Esterification by Reactive Distillation. Part 1: Equilibrium-Based Design," 2003, Chemical Engineering Science, 58:3159-3174	
14	RATHEESH, S., "Holdup and Pressure Drop Studies in Structured Packings with Catalysts," 2004, Chemical Engineering Journal, 104:45-54	
15	SCHMITT, et al., "Synthesis of N-Hexyl Acetate by Reactive Distillation," 2004, Chem. Eng. Proc., 43:397-409	
16	SCHMITT, et al., "N-Hexyl Acetate Pilot Plant Reactive Distillation with Modified Internals," 2005, Chem. Eng. Proc., 44:677-685 (Abstract)	
17	SHARMA, M.M., et al., "Chapter 1. Industrial Application of Reactive Distillation in Reactive Distillation," 2003, Reactive Distillation. Status and Future Directions, pgs. 3-29, Sundmacher and Kienle, Eds., Wiley-VCH Berlag GmbH & Co. KGaA, Germany	
18	SHI, et al., "The Synthesis of Tributyl Citrate Catalyzed by Solid Super Acid S2082-/TiO2-SiO2," 2004, Applied Chemical Industry, 33(3):41-43 (Abstract)	
19	SMEJKAL, Q., et al., "2-Methylpropylacetate Synthesis in a System of Equilibrium Reactor and Reactive Distillation Column," 2001, Chemical Engineering Science, 56:365-370	
20	SPES, H., "Catalytic Reactions in Ion-Exchange Columns Under Conditions of The Chemical Equilibrium Shift," 1966, Chemiker-Ztg./Chem Apparatur, 90(13):443-446	
21	STANKIEWICZ, et al., "Process Intensification: Transforming Chemical Engineering," 2000, Chemical Engineering Progress, 22-34	
22	TAO, X., et al.,1998, Huaxue Shijie, 39(6):302-304	

Receipt date: 08/25/2008		Application Number		10577374 - GAU: 162 2007-01-23			
INFORMATION DISCLOSURE			Filing Date				
			First Named Inventor	David	M. Sutton et al.		
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			Attorney Docket Numb	er	KPT 1101; P5012	275US	
:	23	TAYLOR, R., et al., "Chapter 9. M Reactive Distillation, pgs. 217-240					

TAYLOR, R., et al., "Modelling Reactive Distillation," 2000, Chemical Engineering Science, 55:5183-5229

VAN BATEN, J.M., et al., "Liquid-Phase Mass Transfer Within KATAPAK-S Structures Studied Using Computational

ZHENG, et al., "Study on the Synethesis of Tributyl Citrate," 2004, Fine Chemical Intermediates, 34(1):28-30 (Abstract)

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Fluid Dynamics Simulations," 2001, Catalysis Today, 69:371-377

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